NORDIC ID HH83

THE FUTUREPROOF AND DURABLE CHOICE FOR DATA COLLECTION

Nordic ID HH83 is designed for **quick, accurate and reliable** data collection whether it is for barcode or UHF RFID reading. When the decision has to be made, choose the new generation of reader that is **timeless and futureproof.** There are many things to consider and so many choices. If only you had a crystal ball to see what the future will bring.

It's a good thing you selected the Nordic ID HH83. The **ergonomic** design is easy to hold so the staff does not complain. You know that the **modular** design will work with your barcode and RFID locations, just **upgrade** instead of replacing the device. The finance guys will appreciate that!

IT wants software that complies with the company rules and the **Android 10** fits perfectly.

Anybody else have needs? Well the warehouse needs durability. The **IP65** rating and drop tested design will take care of that.

Who needs a crystal ball?

PRODUCT VARIANTS

NORDIC ID HH83
RFID ACD

NORDIC ID HH83
BARCODE

NORDIC ID HH83
ACCESSORIES

Desktop charger

Belt holster

UHF RFID · WLAN · LTE · 2D Imager Barcode · Bluetooth · GNSS · Android 10 · App Center

PRODUCT HIGHLIGHTS

- Market leading state-of-the-art UHF RFID performance
- Future proof your data collection with this powerful industrial level RAIN RFID performance
- Protect your investment thanks to our easily upgradeable modular design: transform barcode to RFID whenever you are ready

- Ergonomic design focused on comfortable use
- Operates a full working day on a single charge
- Android operating system for easy application development
- Fully integrated to Nordic ID solutions
- Supports Android Enterprise EMM / MDM and Remote Access platforms

NORDIC ID HH83

UHF RFID IDENTIFICATION

Supported standard	ISO 18000-63 (EPC Class 1 Gen2v2)
Frequency	ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
RF radiated power	Max. ERP 2 W (33dBm) / EIRP 3.3 W (35.2dBm) Adjustable in 1dB steps (30 steps)
Antenna features	• Software controllable antenna polarizations (vertical, horizontal or vertical/horizontal switching) • Reading range up to 15 m / 50 ft
Max receive sensitivity	-80 dBm
Typical reading speed	Up to 1000 tags per second

BARCODE IDENTIFICATION AND IMAGING

2D imager	• All major 1D barcodes and 2D codes • High visibility LED aimer • 2 characters pre and post fixes, padding, replacement • Enhanced aiming mode (automatic switching between scan line / aiming dot) • Configurable scan alert sounds
Camera	5 Mpix rear-facing camera with auto focus and LED flash (torch mode supported)

PLATFORM

RFID	Nordic ID NUR2-1W reader module
CPU	Octa-Core ARM Cortex-A53 1.8 GHz
Operating system	Android 10
Memory	• 2 GB RAM • 16 GB Flash • MicroSD slot with support for SDXC cards
Sensors	Accelerometer, ambient light sensor, Time of Flight sensor (only in barcode variant), proximity sensor, pedometer, gyroscope

USER INTERFACE

Display	• 4.7 HD capacitive touch screen, 1280 x 720 pixels, 16.7 M colors • Adjustable LED backlight, Daylight readable, Gorilla glass 3, usage with gloves supported
Keypad	3 backlit physical keys below the display, 2 customizable trigger buttons on the sides
Audio	Microphone, earpiece and IHF speaker
Signals and indicators	RGB LED and vibra for haptic feedback

ENVIRONMENT

Temperature	Operating	-20° to +55 °C	-4 to +131 °F
	Storage	-20° to +60 °C	-4 to +140 °F
	Charging	0° to +45 °C	+32 to +113 °F
Relative humidity	10 % to 95 % non-condensing		
Environmental sealing	IP65		

CONNECTIVITY

Wireless WAN (optional)	Europe • 4G LTE (B1/B3/B5/B7/B8/B20/B28A/B38/B40/B41) • 3G WCDMA (B1/B2/B5/B8) • GPRS / EDGE (850/900/1800/1900)
GNSS (optional)	Assisted GPS, BeiDou, GLONASS and Galileo
Wireless LAN	IEEE 802.11 a/b/g/n/ac. Dual band WLAN, supports 2.4 GHz and 5 GHz networks
Wireless PAN	• Bluetooth 4.2 Class 2 • Classic and Low Energy modes supported
PAN	• USB 2.0 via USB Type-C connector • Desktop charger provides USB connectivity via USB Type-C connector
NFC	NFC standards supported: ISO/IEC 14443A, ISO/IEC 14443B, FeliCa, ISO/IEC 15693 (Vicinity)

POWER

Battery	• Rechargeable, removable Lithium-Ion battery: 6700 mAh, 3.6 V or 3350 mAh, 3.6 V • Up to 12 hours in intensive use
Charging	• Charging over desktop charger (0 to 100 %) 4 h • Charging over USB Type-C connector (0 to 100 %) 4 h (with charger supporting Qualcomm Quick Charge 3.0)
External power supply	• AC adapter for desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 1.25A, 30 W / Power cable for EU, UK or US • AC adapter for multiunit desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 6.25A / 150W / Power cable for EU, UK or US
Backup battery	Back-up battery for real-time clock: keeps time for 200 days
Battery Hot Swap	Supported

SIZE AND WEIGHT

Dimensions	
• Nordic ID HH83 RFID ACD	• (H) 212 x (W) 83/72 x (D) 133/29 mm / (H) 8.3 x (W) 3.3/2.8 x (D) 5.2/1.1 inch
• Nordic ID HH83 BARCODE	• (H) 177 x (W) 78/72 x (D) 35/29 mm / (H) 7.0 x (W) 3.1/2.8 x (D) 1.4/1.1 inch

Weight	
• Nordic ID HH83 RFID ACD	• With 6700 mAh battery: 515 g / 18.17 oz
• Nordic ID HH83 BARCODE	• With 3350 mAh battery: 340 g / 11.99 oz With 6700 mAh battery: 380 g / 13.40 oz

DROP AND SHOCK

Drop and impact resistance	1.6 m / 5.2 ft	
ESD	Contacts Air discharge	+/- 4 kVdc +/- 8 kVdc

SUPPORT

• Maintenance service and extended maintenance contract
• Software customization and development support
• Technology, product and integration training
• Technology and project consultation
• Project management services

WARRANTY

• 2 year warranty
• Free technical support during and after 2 year warranty

SOFTWARE DEVELOPMENT ENVIRONMENT

• Android Studio, Visual Studio
• Source code available at: https://github.com/NordicID